

**Work Order ID 106925**

\*106925\*

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September-11-13 11:53:26 AM

**Item ID:** D4002-043      **Accept**      \*N900040100\*      **Setup Start** \*NS1\*  
**Revision ID:**  
**Item Name:** Aux Tank Drain Hose Assy, Aft      **Stop** \*NS2\*  
**Start Date:** 9/11/13      **Start Qty:** 4.00      \*4\*      **Cust Item ID:**  
**Required Date:** 9/11/13      **Req'd Qty:** 4.00      \*4\*      **Customer:**

## Reference:

Approvals: Process Plan: ML3 Date: 13-09-11 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____   |      |               | DISPOSITION                                       |   | AGAINST DEPARTMENT/PROCESS                       |   |                                 |              |              |   |  |
|---|------|---------------|---|---|--|---|---------------------------------|--------------|--------------|---|--|
|   |      |               | Rework<br>Scrap<br>Use-as-is<br>Work Order Update | Skid-tube<br>Machining<br>Thermoforming<br>Large Fab  | Crosstube<br>Small Fab<br>Finishing<br>Composite | Water Jet<br>Prod. Eng. Coor.<br>Rec/Store/Packaging<br>Supplier  | Engineering<br>Quality<br>Other |              |              |   |  |
| Part No. _____  |      | NCR No. _____ |   |   |  |   |                                 |              |              |   |  |
| Root Cause  | Date | Step          | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng                                | Action Description  | Sign & Date                     | Verification | QC Inspector |   |  |
| Doc/Data  |      |               |   |   |  |   |                                 |              |              |   |  |
| Equip/Tooling   |      |               |   |   |  |   |                                 |              |              |   |  |
| Operator  |      |               |   |   |  |   |                                 |              |              |   |  |
| Material  |      |               |   |   |  |   |                                 |              |              |   |  |
| Setup   |      |               |   |   |  |   |                                 |              |              |   |  |
| Other   |      |               |   |   |  |   |                                 |              |              |   |  |
| Process   |      |               |   |   |  |   |                                 |              |              |   |  |
| Supplier  |      |               |   |   |  |   |                                 |              |              |   |  |
| Training  |      |               |   |   |  |   |                                 |              |              |   |  |
| Unapproved  |      |               |   |   |  |   |                                 |              |              |   |  |
| FAULT CATEGORY  |      |               |   |   |  |   |                                 |              |              |   |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |               |   | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |  | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |                                 |              |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><hr/><br><hr/><br><hr/> |  |
|   |      |               |   |   |  |   |                                 |              |              | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled   |  |
|   |      |               |   |   |  |   |                                 |              |              | <input type="checkbox"/> Other  |  |

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|                |                               |                 |              |               |       |       |       |
|----------------|-------------------------------|-----------------|--------------|---------------|-------|-------|-------|
| Item ID:       | D4002-043                     | Accept          | *N900040100* | Setup         | Start | *NS1* |       |
| Revision ID:   |                               |                 |              | Stop          |       | *NS2* |       |
| Item Name:     | Aux Tank Drain Hose Assy, Aft |                 |              |               |       |       |       |
| Start Date:    | 9/11/13                       | Start Qty: 4.00 | *4*          | Cust Item ID: |       |       |       |
| Required Date: | 9/11/13                       | Req'd Qty: 4.00 | *4*          | Customer:     |       |       |       |
| Reference:     |                               |                 |              |               |       |       |       |
| Approvals:     | Process Plan:                 | Date:           | Tooling:     | Date:         | Run   | Start | *NR1* |
|                | QC:                           | Date:           | SPC (Y/N):   | Date:         | Stop  |       | *NR2* |

| Sequence ID/<br>Work Center ID               | Operation<br>Description   | Set Up/<br>Run Hours   | Tool ID                         | Tool #         | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp        |
|--|--|------------------------|---------------------------------|----------------|--------------|---------------|---------------|------------------|-----------------------|
| 120<br><b>*120*</b><br>QC<br>Quality Control | QC6- Inspect dimensions to drawing   | 0.00 <b>27</b><br>9-89 |                                 |                |              | <u>4</u>      |               |                  |                       |
|  | Memo   | 0.00 <b>B 9 24</b>     |                                 |                |              |               |               |                  |                       |
| 121<br><b>*121*</b><br>Small Fab             |  | 0.00                   |                                 |                |              | <u>4</u>      |               |                  | <b>FF</b><br>13-10-23 |
| Small Fab                                    | Memo   | 0.00                   |                                 |                |              |               |               |                  |                       |
|  | 1-Assemble fitting, o-ring and valve as per dwg D4002<br>2- Install label as per dwg |                        | <b>DAS</b><br><b>27</b><br>9-89 |                |              |               |               |                  |                       |
| 122<br><b>*122*</b><br>QC<br>Quality Control | QC5- Inspect part completeness to step on W/O  | 0.00                   |                                 | <b>B 10 23</b> |              | <u>4</u>      |               |                  |                       |
|  | Memo   | 0.00                   |                                 |                |              |               |               |                  |                       |

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____            |                          |                | DISPOSITION                                   |   |                                       | AGAINST DEPARTMENT/PROCESS            |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
|------------------------------|--------------------------|----------------|---|---|---------------------------------------|---------------------------------------|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---|--------------------------------------|---|-------------------------------------|-----------------------------------|
|                              |                          |                | Rework<br><input type="checkbox"/>            | Scrap<br><input type="checkbox"/>                   | Use-as-is<br><input type="checkbox"/> | Skid-tube<br><input type="checkbox"/> | Machining<br><input type="checkbox"/> | Thermoforming<br><input type="checkbox"/> | Large Fab<br><input type="checkbox"/> | Crosstube<br><input type="checkbox"/> | Small Fab<br><input type="checkbox"/> | Finishing<br><input type="checkbox"/> | Composite<br><input type="checkbox"/> | Water Jet<br><input type="checkbox"/> | Prod. Eng. Coor.<br><input type="checkbox"/> | Rec/Store/Packaging<br><input type="checkbox"/> | Supplier<br><input type="checkbox"/> | Engineering<br><input type="checkbox"/> | Quality<br><input type="checkbox"/> | Other<br><input type="checkbox"/> |
| Part No. _____               |                          |                | Work Order Update<br><input type="checkbox"/> |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| NCR No. _____                |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Root Cause                   | Date                     | Step           | Qty   | Description of work order update or Non-conformance |                                       |                                       | Initial Chief Eng                     | Action Description                        |                                       |                                       | Sign & Date                           | Verification                          | QC Inspector                          |                                       |  |   |                                      |   |                                     |                                   |
| Doc/Data                     |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Equip/Tooling                |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Operator                     |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Material                     |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Setup                        |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Other                        |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Process                      |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Supplier                     |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Training                     |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Unapproved                   |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| FAULT CATEGORY               |                          |                |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Landing Gear                 |                          |                |   | General   |                                       |                                       |                                       |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Bending                      | <input type="checkbox"/> | Bend           | <input type="checkbox"/>                      | Grain   | <input type="checkbox"/>              | Ovalized                              | <input type="checkbox"/>              | Pressure/Forced                           |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Centre Not Concentric to O/S | <input type="checkbox"/> | BOM/Route      | <input type="checkbox"/>                      | Hardware  | <input type="checkbox"/>              | Over/Under tolerance                  | <input type="checkbox"/>              | Temperature/Cure                          |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Cracks                       | <input type="checkbox"/> | Broken/Damaged | <input type="checkbox"/>                      | Inspection Incomplete                               | <input type="checkbox"/>              | Part Incorrect                        | <input type="checkbox"/>              | Weld                                      |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Crushed/Crimped              | <input type="checkbox"/> | Burrs          | <input type="checkbox"/>                      | Instructions Incomplete/Unclear                     | <input type="checkbox"/>              | Part Lost/Missing                     | <input type="checkbox"/>              | Wrong Stock Pulled                        |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Cuffs                        | <input type="checkbox"/> | Contamination  | <input type="checkbox"/>                      | Maintenance   | <input type="checkbox"/>              | Part Moved                            | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Heat Treat                   | <input type="checkbox"/> | Countersink    | <input type="checkbox"/>                      | Mislabeled  | <input type="checkbox"/>              | Positioned Wrong                      | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Inspection Strip in Tube     | <input type="checkbox"/> | Cut Too Short  | <input type="checkbox"/>                      | Misread   | <input type="checkbox"/>              | Power Loss/Surge                      | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Ripples in Bend              | <input type="checkbox"/> | Drill Holes    | <input type="checkbox"/>                      | Offset  | <input type="checkbox"/>              | Other                                 | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Torque Waves in Extrusion    | <input type="checkbox"/> | Drawing        | <input type="checkbox"/>                      | Out of Calibration                                  | <input type="checkbox"/>              |                                       | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Turning Sequence             | <input type="checkbox"/> | Finish         | <input type="checkbox"/>                      | Out of Sequence                                     | <input type="checkbox"/>              |                                       | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Wave/Twist in Tube           | <input type="checkbox"/> | Folio          | <input type="checkbox"/>                      | Outside Dimensions                                  | <input type="checkbox"/>              |                                       | <input type="checkbox"/>              |   |                                       |                                       |                                       |                                       |                                       |                                       |  |   |                                      |   |                                     |                                   |

•Work Order ID 106925

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Item ID: D4002-043

Accept

\*N900040100\*

Setup

Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Aux Tank Drain Hose Assy, Aft

Start Date: 9/11/13 Start Qty: 4.00

\*4\*

Cust Item ID:

Required Date: 9/11/13 Req'd Qty: 4.00

\*4\*

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

Identify as per dwg & Stock Location: ST194

0.00

4X

DAS  
28

13-10-23

9-89

\*130\*

Packaging

Packaging

140

QC21- Final Inspection - Work Order Release

0.00

JULY 13-10-25

\*140\*

QC

Quality Control

Memo

0.00

ALB-10-24

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____            |      |      | DISPOSITION                           |   | AGAINST DEPARTMENT/PROCESS                                  |   |  |   |              |              |
|------------------------------|------|------|---------------------------------------|---|---|---|--|---|--------------|--------------|
|                              |      |      | Rework<br><input type="checkbox"/>    | Scrap<br><input type="checkbox"/>                     | Skid-tube<br><input type="checkbox"/>                       | Crosstube<br><input type="checkbox"/>             | Water Jet<br><input type="checkbox"/>          | Engineering<br><input type="checkbox"/>     |              |              |
|                              |      |      | Use-as-is<br><input type="checkbox"/> | Work Order Update<br><input type="checkbox"/>         | Machining<br><input type="checkbox"/>                       | Small Fab<br><input type="checkbox"/>             | Prod. Eng. Coor.<br><input type="checkbox"/>   | Quality<br><input type="checkbox"/>         |              |              |
|                              |      |      |                                       | Thermoforming<br><input type="checkbox"/>             | Finishing<br><input type="checkbox"/>                       | Rec/Store/Packaging<br><input type="checkbox"/>   | Other<br><input type="checkbox"/>              |   |              |              |
|                              |      |      |                                       | Large Fab<br><input type="checkbox"/>                 | Composite<br><input type="checkbox"/>                       | Supplier<br><input type="checkbox"/>              |  |   |              |              |
| Root Cause                   | Date | Step | Qty                                   | Description of work order update or Non-conformance   |   | Initial Chief Eng                                 | Action Description                             | Sign & Date                                 | Verification | QC Inspector |
| Doc/Data                     |      |      |                                       |   |   |   |  |   |              |              |
| Equip/Tooling                |      |      |                                       |   |   |   |  |   |              |              |
| Operator                     |      |      |                                       |   |   |   |  |   |              |              |
| Material                     |      |      |                                       |   |   |   |  |   |              |              |
| Setup                        |      |      |                                       |   |   |   |  |   |              |              |
| Other                        |      |      |                                       |   |   |   |  |   |              |              |
| Process                      |      |      |                                       |   |   |   |  |   |              |              |
| Supplier                     |      |      |                                       |   |   |   |  |   |              |              |
| Training                     |      |      |                                       |   |   |   |  |   |              |              |
| Unapproved                   |      |      |                                       |   |   |   |  |   |              |              |
| FAULT CATEGORY               |      |      |                                       |   |   |   |  |   |              |              |
| Landing Gear                 |      |      |                                       | General   |   |   |  |   |              |              |
|                              |      |      |                                       | Bending<br><input type="checkbox"/>                   | Bend<br><input type="checkbox"/>                            | Grain<br><input type="checkbox"/>                 | Ovalized<br><input type="checkbox"/>           | Pressure/Forced<br><input type="checkbox"/> |              |              |
| Centre Not Concentric to O/S |      |      |                                       | BOM/Route<br><input type="checkbox"/>                 | Hardware<br><input type="checkbox"/>                        | Over/Under tolerance<br><input type="checkbox"/>  | Temperature/Cure<br><input type="checkbox"/>   |   |              |              |
|                              |      |      |                                       | Cracks<br><input type="checkbox"/>                    | Broken/Damaged<br><input type="checkbox"/>                  | Inspection Incomplete<br><input type="checkbox"/> | Part Incorrect<br><input type="checkbox"/>     |   |              |              |
| Crushed/Crimped              |      |      |                                       | Burrs<br><input type="checkbox"/>                     | Instructions Incomplete/Unclear<br><input type="checkbox"/> | Part Lost/Missing<br><input type="checkbox"/>     | Weld<br><input type="checkbox"/>               |   |              |              |
|                              |      |      |                                       | Cuffs<br><input type="checkbox"/>                     | Contamination<br><input type="checkbox"/>                   | Maintenance<br><input type="checkbox"/>           | Wrong Stock Pulled<br><input type="checkbox"/> |   |              |              |
| Heat Treat                   |      |      |                                       | Countersink<br><input type="checkbox"/>               | Mislabeled<br><input type="checkbox"/>                      | Part Moved<br><input type="checkbox"/>            |  |   |              |              |
|                              |      |      |                                       | Inspection Strip in Tube<br><input type="checkbox"/>  | Cut Too Short<br><input type="checkbox"/>                   | Positioned Wrong<br><input type="checkbox"/>      |  |   |              |              |
| Ripples in Bend              |      |      |                                       | Drill Holes<br><input type="checkbox"/>               | Misread<br><input type="checkbox"/>                         | Power Loss/Surge<br><input type="checkbox"/>      |  |   |              |              |
|                              |      |      |                                       | Torque Waves in Extrusion<br><input type="checkbox"/> | Drawing<br><input type="checkbox"/>                         | Offset<br><input type="checkbox"/>                | Other<br><input type="checkbox"/>              |   |              |              |
| Turning Sequence             |      |      |                                       | Finish<br><input type="checkbox"/>                    | Out of Calibration<br><input type="checkbox"/>              |   |  |   |              |              |
|                              |      |      |                                       | Wave/Twist in Tube<br><input type="checkbox"/>        | Folio<br><input type="checkbox"/>                           | Out of Sequence<br><input type="checkbox"/>       |  |   |              |              |
|                              |      |      |                                       |   | Outside Dimensions<br><input type="checkbox"/>              |   |  |   |              |              |

## Picklist Print

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**Work Order ID:** 106925

**Parent Item:** D4002-043

**Parent Item Name:** Aux Tank Drain Hose Assy, Aft

**Start Date:** 9/11/13

**Required Date:** 9/11/13

**Start Qty:** 4.00

**Required Qty:** 4.00

**Comments:** IPP rev A 10.01.21 new issue Prelim EC verified by:DD IPP rev B 10.11.03 added  
MS29528-04 DD verified by:EC

NCR: Yes / No

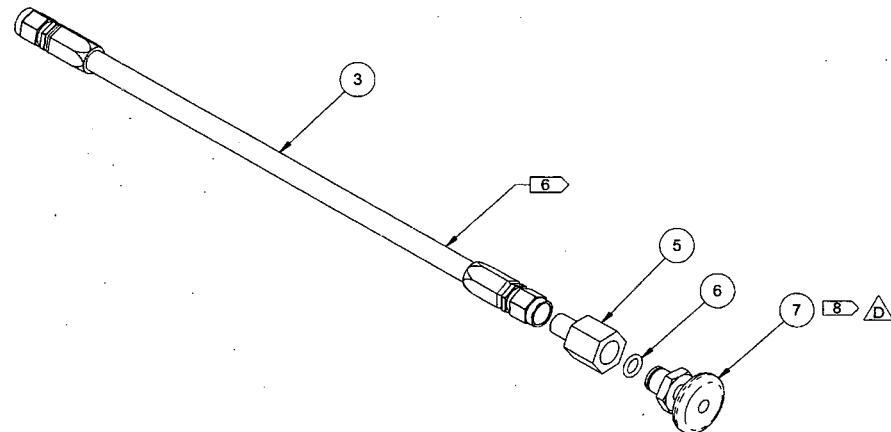
DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

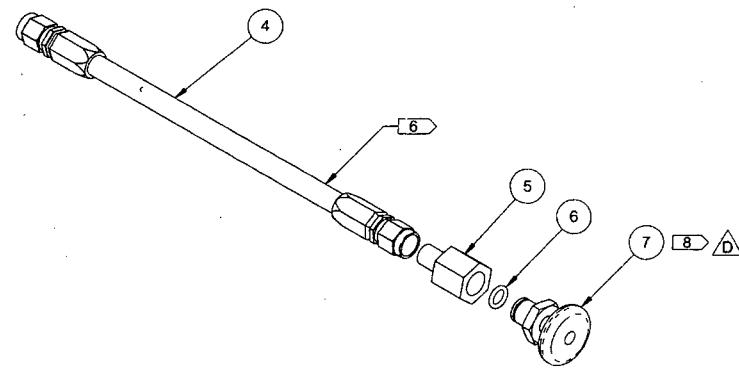
QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____   |      |      | DISPOSITION                                   |   |                                       | AGAINST DEPARTMENT/PROCESS            |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
|---|------|------|---|---|---------------------------------------|---------------------------------------|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---|--------------------------------------|---|-------------------------------------|-----------------------------------|
|   |      |      | Rework<br><input type="checkbox"/>            | Scrap<br><input type="checkbox"/>   | Use-as-is<br><input type="checkbox"/> | Skid-tube<br><input type="checkbox"/> | Machining<br><input type="checkbox"/> | Thermoforming<br><input type="checkbox"/>   | Large Fab<br><input type="checkbox"/> | Crosstube<br><input type="checkbox"/> | Small Fab<br><input type="checkbox"/> | Finishing<br><input type="checkbox"/>  | Composite<br><input type="checkbox"/> | Water Jet<br><input type="checkbox"/> | Prod. Eng. Coor.<br><input type="checkbox"/> | Rec/Store/Packaging<br><input type="checkbox"/>   | Supplier<br><input type="checkbox"/> | Engineering<br><input type="checkbox"/> | Quality<br><input type="checkbox"/> | Other<br><input type="checkbox"/> |
| Part No. _____  |      |      | Work Order Update<br><input type="checkbox"/> |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| NCR No. _____   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   |                                       | Initial Chief Eng                     | Action Description                    |   |                                       | Sign & Date                           | Verification                          | QC Inspector   |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Doc/Data  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Equip/Tooling   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Operator  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Material  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Setup   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Other   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Process   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Supplier  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Training  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| Unapproved  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| FAULT CATEGORY  |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  |   |                                      |   |                                     |                                   |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      |   | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |                                       |                                       |                                       | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |                                       |                                       |                                       | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge |                                       |                                       |  | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled |                                      |   |                                     |                                   |
|   |      |      |   |   |                                       |                                       |                                       |   |                                       |                                       |                                       |  |                                       |                                       |  | <input type="checkbox"/> Other<br><hr/> <hr/> <hr/>   |                                      |   |                                     |                                   |

| ITEM NO. | QTY.<br>-041 | QTY.<br>-043 | PART NUMBER | DESCRIPTION                       | JOHN CAMERON AVIATION<br>PART NUMBER |
|----------|--------------|--------------|-------------|-----------------------------------|--------------------------------------|
| 1        | X            |              | D4002-041   | AUX TANK DRAIN HOSE ASSEMBLY, FWD | JCA-M47-1-13                         |
| 2        |              | X            | D4002-043   | AUX TANK DRAIN HOSE ASSEMBLY, AFT | JCA-M47-1-16                         |
| 3        | 1            |              | D4002-1     | HOSE ASSEMBLY                     |                                      |
| 4        |              | 1            | D4002-3     | HOSE ASSEMBLY                     |                                      |
| 5        | 1            | 1            | AN894D4-3   | FITTING                           |                                      |
| 6        | 1            | 1            | MS29512-04  | O RING                            |                                      |
| 7        | 1            | 1            | CCB4320     | FUEL DRAIN VALVE (MS29528-4)      |                                      |



D4002-041 DRAIN HOSE - FRONT



D4002-043 DRAIN HOSE - REAR

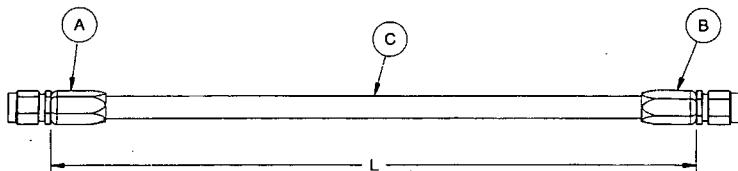
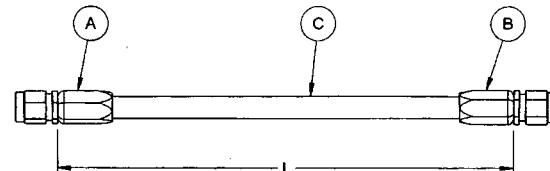
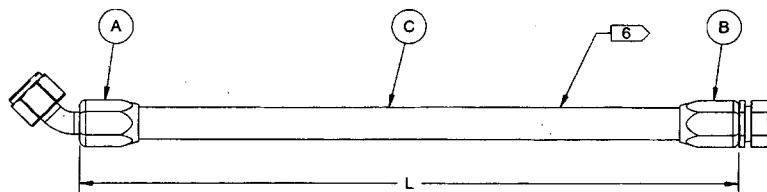
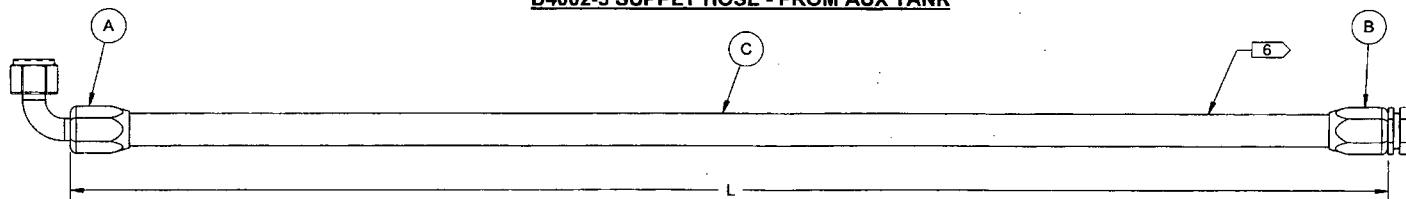
RELEASED  
2011-11-16  
MAP

- NOTES:  
 1) MATERIAL: N/A  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: N/A  
 6) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK  
 7) WEIGHT: D4002-041 - 0.21 lbs  
     D4002-043 - 0.20 lbs  
 8) DRAIN VALVE MAY NOT APPEAR EXACTLY AS PICTURED

|            |  |   |              |
|------------|--|---|--------------|
| D          | ADDED NOTE 8                                     | DC  | 11.10.06     |
| C          | ADDED 8.00" TO D4002-1/-3 HOSES; AFFECTED WEIGHT | MB  | 11.09.14     |
| B          | CHANGE LENGTH MEASUREMENT FOR -3, ZN C2-2        | HS  | 10.11.03     |
| A          | NEW ISSUE  | HS  | 10.03.01     |
| REV.       | DESCRIPTION                                      | BY  | DATE         |
| DESIGN     | <i>AB</i>  | DART AEROSPACE LTD  |              |
| DRAWN      | <i>DC</i>  | HAWKESBURY, ONTARIO, CANADA   |              |
| CHECKED    | <i>AB</i>  | DRAWING NO.   | REV. D       |
| MFG. APPR. | <i>PE</i>  | D4002   | SHEET 1 OF 2 |
| APPROVED   | <i>AB</i>  | TITLE   | SCALE        |
| DE APPR.   | <i>AB</i>  | HOSE ASSEMBLY   | NTS          |
| DATE       | 11.10.06   | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND PROPRIETARY, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD |              |

| DART AEROSPACE PART NUMBER | JOHN CAMERON AVIATION PART NUMBER |
|----------------------------|-----------------------------------|
| D4002-1                    | REF JCA-M47-1-13                  |
| D4002-3                    | REF JCA-M47-1-16                  |
| D4002-5                    | JCA-M47-2-13                      |
| D4002-7                    | JCA-M47-2-25                      |

## SPECIFICATION CONTROL DRAWING

**D4002-1 HOSE ASSEMBLY****D4002-3 HOSE ASSEMBLY****D4002-5 SUPPLY HOSE - FROM AUX TANK****D4002-7 SUPPLY HOSE - PUMP TO MAIN TANK FILLER NECK**

| DART PART NUMBER | STRATOFLEX PART NUMBER | POSSIBLE VENDOR | LENGTH "L" | END FITTING "A" | END FITTING "B" | HOSE "C" | WEIGHT   |
|------------------|------------------------|-----------------|------------|-----------------|-----------------|----------|----------|
| D4002-1          | 156001-3S-0185         | AVIALL/API      | 17.90      | 676-3S          | 676-3S          | 156-3    | 0.16 lbs |
| D4002-3          | 156001-3S-0154         | AVIALL/API      | 14.76      | 676-3S          | 676-3S          | 156-3    | 0.15 lbs |
| D4002-5          | 156003-6D-0102         | AVIALL/API      | 8.94       | 678-6D          | 676-6D          | 156-6    | 0.13 lbs |
| D4002-7          | 156005-6D-0213         | AVIALL/API      | 20.31      | 680-6D          | 676-6D          | 156-6    | 0.19 lbs |

## NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N AND B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE

RELEASED  
2011-11-16

|               |           |                             |           |
|---------------|-----------|-----------------------------|-----------|
| DESIGN        | <i>BC</i> | DART AEROSPACE LTD          |           |
| DRAWN         | <i>BC</i> | HAWKESBURY, ONTARIO, CANADA |           |
| CHECKED       | <i>BC</i> | DRAWING NO.                 |           |
| MFG. APPR.    | <i>BC</i> | REV. D                      |           |
| APPROVED      | <i>BC</i> | D4002                       |           |
| DE APPR.      | <i>BC</i> | SHEET 2 OF 2                |           |
| DATE 11.10.06 |           | TITLE HOSE ASSEMBLY         | SCALE NTS |

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO21395

Purchase Order Date 9/18/2013  
PO Print Date 9/18/2013

Page Number 1 of 1

Order From : VU-AVI003

AVIALL  
PO BOX 842275

DALLAS, TX 75284-2275  
USA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

FAXED  
FEB 3 2014

|                 |                |                      |
|-----------------|----------------|----------------------|
| Contact Name    | Buyer          | Chantal Lavoie       |
| Vendor Phone    | Customer POID  |                      |
|                 | Customer Tax # | 10127-2607           |
| Ship To Contact | Terms          | Net 30               |
| Ship To Phone   | Currency       | USD                  |
| Ship Via:       | FOB            | FCA - (Free Carrier) |
| Ship Acct:      |                |                      |

| Line Nbr | Reference Vendor Part Number | Description/ Mfg ID                | Req Date/ Taxable             | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|----------|------------------------------|------------------------------------|-------------------------------|----|--------------------------|---------------|----------------|
| 1        | 156001-3S-0185               | Hose Assembly                      | 9/26/2013<br>Yes<br>9/26/2013 |    | 4.00<br>Each             | \$131.80      | \$527.20       |
|          |                              | AS PER DWG D4002 REV. D<br>B106825 |                               |    |                          |               |                |

SPECIAL ORDER ITEM, NON-CANCELABLE

|   |                |                                    |                               |  |              |          |          |
|---|----------------|------------------------------------|-------------------------------|--|--------------|----------|----------|
| 2 | 156001-3S-0154 | Hose Assembly                      | 9/26/2013<br>Yes<br>9/26/2013 |  | 4.00<br>Each | \$126.94 | \$507.76 |
|   |                | AS PER DWG D4002 REV. D<br>B106925 |                               |  |              |          |          |

SPECIAL ORDER ITEM, NON-CANCELABLE

Line Total: \$527.20

|   |                |                                    |                               |  |              |          |          |
|---|----------------|------------------------------------|-------------------------------|--|--------------|----------|----------|
| 2 | 156001-3S-0154 | Hose Assembly                      | 9/26/2013<br>Yes<br>9/26/2013 |  | 4.00<br>Each | \$126.94 | \$507.76 |
|   |                | AS PER DWG D4002 REV. D<br>B106925 |                               |  |              |          |          |

SPECIAL ORDER ITEM, NON-CANCELABLE

Line Total: \$507.76

PO Total: \$1,034.96

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES NO  
PST# 6122-5207

Change Nbr: 1 Change Date: 9/18/2013



# PACKING LIST



CUSTOMER P.O.: PO21395

ORDER NUMBER: 0001240545 - 356722

ORDER DATE: 09/20/13  
DATE DE COMMANDE

S 032027  
 O DART AEROSPACE LTD  
 V 1270 ABERDEEN STREET  
 L HAWKESBURY ON K6A 1K7  
 E CANADA  
 D T  
 N R  
 D O  
 U A  
 T R  
 O R  
 A O

S E 34170  
 H X AVIALL TORONTO CSC  
 P E 1840 ALSTEP DR. UNIT 5.  
 I E MISSISSAUGA ON L5S 1W1  
 D E CANADA  
 R O  
 O D  
 M E

SHIP NBR:  
No DE EXPEDITEUR 356722SHIP VIA:  
EXPEDIER PAR FED P1AM - COLLECTTIME/HEURE: 08:11  
EMP#: 25481  
ORDER TYPE / TYPE DE COMMANDE: RG

CURRENCY: USD

| LINE   | MFG | ITEM DESCRIPTION   | ORDER QUANTITY QUANTITE COMMANDE | SHIP QUANTITY QUANTITE EXPEDIEE | BACK ORDER COMM. EN SOUF | UOM    | LIST PRICE | CUSTOMER PRICE | EXTENDED CUSTOMER PRICE |
|--|-----|--|----------------------------------|---------------------------------|--------------------------|--------|------------|----------------|-------------------------|
| PLEASE SHIP FEDEX P1 ON CUSTOMER ACCOUNT NUMBER 1517-9324-0, AWB# MUST REFERENCE THE PURCHASE ORDER NUMBER, SHIP TO THE ATTN OF CHANTAL 613-632-9577 |     |  |                                  |                                 |                          |        |            |                |                         |
| 2  | 1S  | 156001-3S0185<br>HOSE: MED PRESSURE, RUBBER<br>REIN ST, REF:<br>Schedule B: 4009.22.0050 | 4                                | 4                               | 0 EA                     | 131.80 | 131.8000   | 131.8000       | 527.20                  |
| 3  | 1S  | 156001-3S0154<br>HOSE: MED PRESSURE, RUBBER<br>REIN ST, REF:<br>Schedule B: 4009.22.0050 | 4                                | 4                               | 0 EA                     | 126.94 | 126.9400   | 126.9400       | 507.76                  |
|  |     | LOT 51255937 EA<br>Country of Origin: U.S.A.   |                                  | 4                               |                          |        |            |                |                         |
|  |     | LOT 51255938 EA<br>Country of Origin: U.S.A.   |                                  | 4                               |                          |        |            |                |                         |

Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43.

## CERTIFICATE OF CONFORMANCE / CERTIFICAT DE CONFORMITE

I hereby certify that the aircraft parts, appliances and/or aircraft materials described hereon were acquired from a source of supply that is consistent with the conditions under which the department of transport distributor approval number 35-86 has been granted.

Je certifie par la presente que les pieces appareils et/ou materiaux d'avions decrits ci-dessus ont ete acquis d'une source d'approvisionnement consistante avec les conditions sous lesquelles l'approbation du distributeur du deparment de transport no. 35-86 ont ete recue.

## DISCOUNT TERMS APPLY ONLY TO SUB TOTAL.

ESCOMpte APPLIQUE SUR SOUS TOTAL SEULEMENT.

ALL RETURNED MERCHANDISE SUBJECT TO A HANDLING FEE.  
FRAIS DE MANUTENTION APPLIQUE SUR TOUTE MARCHANDISE RETOURNEE.Signed Rick Rantz Date 09/23/13  
Rick Rantz, Manager

AV19 R2.99

G.S.T.REG.NO.R121506208

CUSTOMER COPY / FILE COPY



# PACKING LIST



PAGE: 2

DATE: 09/23/13

TIME/HEURE: 08:11

EMP#: 25481

ORDER TYPE / TYPE DE COMMANDE: RG

CURRENCY: USD

SHIP NBR:  
No DE EXPEDITEURSHIP VIA: FED P1AM - COLLECT  
EXPEDIER PAR

CUSTOMER P.O.: PO21395  
 BON DE COMMANDE  
 ORDER NUMBER: 0001240545 - 356722  
 No DE COMMANDE  
 ORDER DATE: 09/20/13  
 DATE DE COMMANDE

032027  
 S DART AEROSPACE LTD  
 O 1270 ABERDEEN STREET  
 V HAWKESBURY ON K6A 1K7  
 L D CANADA  
 E T U R O A  
 D T A  
 N T U  
 D T U  
 T T U  
 O T U  
 A T U

S E DART AEROSPACE LTD  
 H X 1270 ABERDEEN STREET  
 I P HAWKESBURY ON K6A 1K7  
 E D CANADA  
 P R O A

S E 34170  
 H X AVIALL TORONTO CSC  
 I P 1840 ALSTEP DR. UNIT 5.  
 E D MISSISSAUGA ON L5S 1W1  
 R F CANADA  
 O D M

| LINE | MFG | ITEM DESCRIPTION | ORDER QUANTITY QUANTITE COMMANDE | SHIP QUANTITY QUANTITE EXPEDIEE | BACK ORDER COMM. EN SOUF | UOM | LIST PRICE | CUSTOMER PRICE | EXTENDED CUSTOMER PRICE |
|------|-----|------------------|----------------------------------|---------------------------------|--------------------------|-----|------------|----------------|-------------------------|
|------|-----|------------------|----------------------------------|---------------------------------|--------------------------|-----|------------|----------------|-------------------------|

|                 |                      |
|-----------------|----------------------|
| PARTS TOTAL     | 1,034.96             |
| AOC TOTAL       | 0.00                 |
| TAXES           | 134.55               |
| FREIGHT         | 0.00                 |
| FUEL SURCHARGE  | 0.00                 |
| ESTIMATED TOTAL | 1,169.51             |
| Currency:       | United States Dollar |

**CERTIFICATE OF CONFORMANCE / CERTIFICAT DE CONFORMITE**  
 I hereby certify that the aircraft parts, appliances and/or aircraft materials described hereon were acquired from a source of supply that is consistent with the conditions under which the department of transport distributor approval number 35-86 has been granted.  
 Je certifie par la presente que les pieces appareils et/ou materiaux d'avions decrits ci-dessus ont ete acquis d'une source d'approvisionnement consistante avec les conditions sous lesquelles l'approbation du distributeur du departement du transport no. 35-86 ont ete recue.

AV19 R2-99

G.S.T.REG.NO.R121506208

Signed \_\_\_\_\_ Date \_\_\_\_\_

Rick Rantz, Manager

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL.  
 ESCOMPTE APPLIQUE SUR SOUS TOTAL SEULEMENT.  
 ALL RETURNED MERCHANDISE SUBJECT TO A HANDLING FEE.  
 FRAIS DE MANUTENTION APPLIQUE SUR TOUTE MARCHANDESE RETOURNEE.

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